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L8 ANSWER 1 OF 1 WPIDS, COPYRIGHT 2004 THE THOMSON CORP on STN

AN 2002-457737 [49] WPIDS

DNC C2002-130598

TI New anti-androgen agent, containing cyanophenyl derivative, for prevention or treatment of prostatic cancer or prostatic hypertrophy.

DC B05

PA (YAMA) YAMANOUCI PHARM CO LTD

CYC 1

PI JP 2002088073 A 20020327 (200249)\* 19<—

ADT JP 2002088073 A JP 2000-272462 20000908

PRAI JP 2000-272462 20000908

AN 2002-457737 [49] WPIDS

AB JP2002088073 A UPAB: 20020802

NOVELTY - New anti-androgen agent comprises cyanophenyl derivatives of formula (I) or their salts as active ingredient.

DETAILED DESCRIPTION - New medicine comprises cyanophenyl derivatives of formula (I) or their salts as active ingredient.

ring A = 4-8 member saturated heterocycle;

Z1, Z2 = CH or N;

X = O, C(R2)R3, NR4, C(=O), S(O)p;

R = cyano or nitro;

R1 = H, halogen, cyano, halogeno lower alkyl, nitro, carboxyl, lower alkyl, R5-B-, R6-S(O)p-, lower alkyl-C(=O)- or lower alkyl-O-C(=O)-;

R2, R3 = H, OH, lower alkyl, heterocycle, aryl-lower alkylene- or -Q1-Q2-R7;

R4 = H, OH, lower alkyl, aryl or heterocycle;

B = O or NR7;

Q1 = bond or lower alkylene;

Q2 = O, -N(R8)-, -N(R8)-C(=O)-, -N(R8)-C(=O)-O-, -N(R8)-C(=O)-N(R9)-, -C(=O)-O-, -C(=O)-N(R8)-, -O-C(=O)-N(R8)-, -O-lower alkylene-O-, -S(O)2- or -N(R8)-S(O)2-;

R5 = halogeno lower alkyl, aryl or -N(R8)R9, lower alkyl which may be substituted with OH or lower alkyl-O-;

R7 = H, lower alkyl, aryl, aryl-lower alkylene-, heterocycle, heterocycle-lower alkylene-;

R6 = lower alkyl, aryl or -N(R8)R9;

R8, R9, R10 = H, lower alkyl, aryl or heterocycle; and

p = 0, 1 or 2.

ACTIVITY - Cytostatic; antiseborrheic; dermatological.

MECHANISM OF ACTION - None given in the source material.

USE - The compound (I) is effective for the prevention or treatment of prostatic cancer, prostatic hypertrophy, virilism, hypertrichosis, baldness, acne or seborrhea.

ADVANTAGE - The compound (I) scarcely affects sex hormone in blood and has strong anti-androgen activity.

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